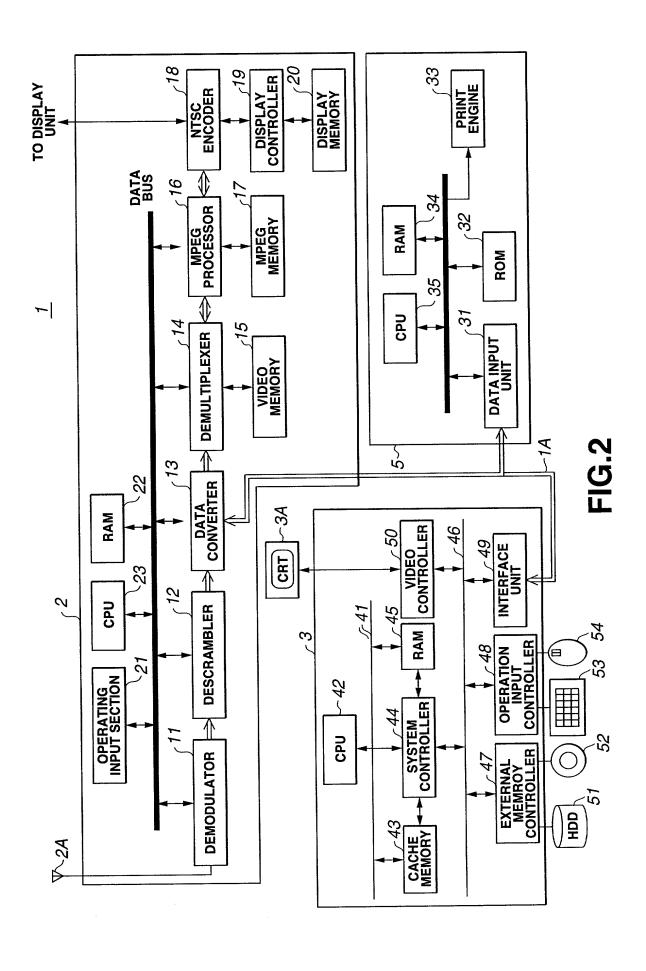


FIG.1



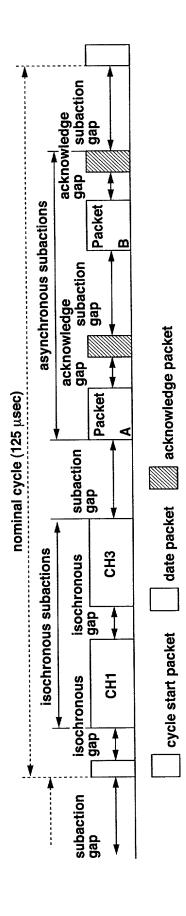


FIG. 3

destination_ID	tl	rt	tcode	pri			
source_ID							
destination_offset							
	+						
data_length extended_tcode							
header_CRC							
СТЅ							
Data/Command							
data_CRC							

FIG.4

CTS	CTS ctype subunit subunit _ID			opecode	operand[0]		
opera	operand[1] operand[2] operand[3] operand[4]						
opera	and[n]						

FIG.5

	msb Isb			
opcode	OPERATION MODE(41 ₁₆)			
operand [0]	subfunction			
operand [1]	status			
operand [2]	next_pic			
operand [3]	next_page			
operand [4]	noxt_page			
operand [5]				
	print_job_ID			
operand [16]				
operand [17]				
:	Operation_mode_parameters			
operand [24]				
operand [25]				
	Operation_mode_optional_parameters			
operand [29]				
operand [30]				
operand [31]	reserved			
operand [32]	1			

FIG.6

Address Offset	Contents
00 ₁₆	media_type
01 ₁₆	
02 ₁₆	Media_size
03 ₁₆	
04 ₁₆	reserved
05 ₁₆	Print_quality
06 ₁₆	Mono_color
07 ₁₆	
08 ₁₆	offset
09 ₁₆	Ollock
0A ₁₆	
0B ₁₆	
0C ₁₆	
0D ₁₆	Layout_type
0E ₁₆	

FIG.7

	msb							Isb
opcode			С	APTU	RE(42	16)		
operand [0]				subfu	ınction			
operand [1]	so	urce_	subui	nit_ty	ре	sourc	e_subu	ınit_ID
operand [2]				sourc	e_pluç]		
operand [3]				sta	atus			
operand [4]				dest	_plug			
operand [5]								
•				print_	_job_IE)		
operand [16]								
operand [17]								
operand [18]				data	_size			
operand [19]		_						
operand [20]								
operand [21]	image_size_x							
operand [22]								
operand [23]	image_size_y							
operand [24]	illiage_size_y							
operand [25]	image format aposition							
operand [26]	image_format_specifier							
operand [27]								
operand [28]				res	erved			
operand [29]								
operand [30]				Nex	ct_pic			
operand [31]				Nevi	nage			
operand [32]	- Next_page							

FIG.8

Value(MSB)	Value(LSB)	Type
9100	sRGB raw	
	00 ₁₆	sRGB raw
	0116	sRGB raw,quadlet
0116	YCC raw	
	0X ₁₆	YCC4:2:2 raw/pixel
	1X ₁₆	YCC4:2:2 raw/line
	8X ₁₆	YCC4:2:0 raw/pixel
	9X ₁₆	YCC4:2:0 raw/line
	X0 ₁₆	Pixel ratio 1.00×1.00 / ITU-R BT.709-2 / interlace
	X1 ₁₆	Pixel ratio 1.19×1.00 / ITU-R BT.709-2 / interlace
	X2 ₁₆	Pixel ratio 0.89×1.00 / ITU-R BT.709-2 / interlace
	X3 ₁₆	Pixel ratio 0.89×1.00 / ITU-R BT.601-4 / interlace
	X8 ₁₆	Pixel ratio 1.00×1.00 / ITU-R BT.709-2 / progressive
	X9 ₁₆	Pixel ratio 1.19×1.00 / ITU-R BT.709-2 / progressive
	XA ₁₆	Pixel ratio 0.89×1.00 / ITU-R BT.709-2 / progressive
	XB ₁₆	Pixel ratio 0.89×1.00 / ITU-R BT.601-4 / progressive
10 ₁₆	DCF Object	
	00 ₁₆	Exif 2.1
	0116	JFIF
	02 ₁₆	TIFF
	0F ₁₆	JPEG

Value (MSB)	Value (LSB)	Туре	Meaning	
40 ₁₆	Page Desc	cription Language		
	03 ₁₀	PCL	HP-GL/2 is included as part of the PCL language (PCL and HP-GL/2 are registered trademarks of Hewlett-Packard Company.)	
	04 ₁₀	HP-GL	Hewlett-Packard Graphics Language (HP-GL is a registered trademark of Hewlett- Packard Company.)	
	0510	PJL	Peripheral Job Language (Hewlett-Packard Co.)	
	06 ₁₀	PS	PostScript Language (Postscript is a trademark of Adobe Systems Incorporated.)	
	07 ₁₀	IPDS	Intelligent Printer Data Stream (IBM)	
	08 ₁₀	PPDS	IBM Personal Printer Data Stream (Lexmark International,Inc.)	
	0910	EscapeP	ESC/P (Epson Corp.)	
	10 ₁₀	Epson	(Epson Corp.)	
	11 ₁₀	DDIF	Digital Document Interchange Format (Digital Equipment Corp.)	
	12 ₁₀	Interpress	(Xerox Corp.)	
	13 ₁₀	ISO6429	Control functions for Coded Character Sets (ISO Standard)	
	14 ₁₀	LineData	Lines of data as separate ASCII or EBCDIC records and containing no control functions(no CR,LF,HT,FFetc.).(See ISO 10175 Document Printing Application(DPA)) (ISO Standard)	
	15 ₁₀	MODCA	Mixed Object Document Content Architecture (IBM)	
	16 ₁₀	REGIS	Remote Graphics Instruction Set (Digital Equipment Corp.)	
	17 ₁₀	scs	SNA Character String Bi-directional print data stream for SNA LU-1 mode of communications (IBM)	
	18 ₁₀	SPDL	ISO 10180 : Standard Page Description Language (ISO Standard)	
	19 ₁₀	TEK4014	Tektronix 4014 Graphics Terminal (Tektronix Corp.)	

FIG.10

Value (MSB)	Value (LSB)	Туре	Meaning
	2010	PDS	
	21 ₁₀	IGP	(Printronix Corp.)
	22 ₁₀	CodeV	Magnum Code-V,Image and printer control language (QMS,Inc)
	23 ₁₀	DSC-DSE	Data Steam Compatible and Emulation Bidirectional print data stream for non-SNA(DSC) and SNA LU-3 3270 controller (DSE) communications (IBM)
	24 ₁₀	WPS	Windows Printing System (Microsoft Corporation.)
	25 ₁₀	LN03	Early DEC-PPL3 (Digital Equipment Corp.)
	26 ₁₀	CCITT	
	27 ₁₀	QUIC	Quality Information Code (QMS,Inc)
	28 ₁₀	СРАР	Common Printer Access Protocol (Digital Equipment Corp.)
	29 ₁₀	DEC-PPL	Degital ANSI-Compliant Printing Protocol (Digital Equipment Corp.)
	30 ₁₀	Simple Text	character coded data,including NUL,CR,LF, HT,and FF control characters,(See ISO 10175 Document Pinting Application(DPA)) (ISO Standard)
	31 ₁₀	NPAP	Network Printer Alliance Protocol(This protocol has been superseded by the IEEE1284. 1 TIPSI Std (ref,TIPSI=49 ₁₀))
	32 ₁₀	DOC	Document Option Commands (QMS,Inc)
	33 ₁₀	ImPRESS	(QMS,Inc)
	34 ₁₀	Pinwriter	24 wire dot matrix printr for USA,Europe,and Asia except Japan. (NEC)
	35 ₁₀	NPDL	Page printer for Japanese market (NEC)
	36 ₁₀	NEC201PL	PC-PRO201 Series:Serial printer language used in the Japanese market. (NEC)
	37 ₁₀	Automatic PDL sensing	Automatic sensing of the interpreter language family by the printer examining the document content. Which actual interpreter language families are sensed depends on the printer implementation.
	38 ₁₀	Pages	Page printer Advanced Graphic Escape Set (IBM Japan)
	3910	LIPS	LBP Image Processing System

FIG.11

Value (MSB)	Value (LSB)	Туре	Meaning				
	4010	TIFF	Tagged Image File Format (Aldus)				
	41 ₁₀	Diagnostic	A hex dump of the input to the interpreter				
	42 ₁₀	PSPrinter	The PostScript Language used for control (with any PDLs) (Adobe Systems Incorporated)				
	43 ₁₀	CaPSL	Canon Print Systems Language (Canon Inc.)				
	44 ₁₀	EXCL	Extended Command Language (Talaris Systems Inc.)				
	45 ₁₀	LCDS	Line Conditioned Data Stream (Xerox Corporation)				
	46 ₁₀	XES	Xerox Escape Sequences (Xerox Corporation)				
	47 ₁₀	PCLXL	Printer Control language.Extended language features for printing,and printer control. (Hewlett-Packard Co.)				
	48 ₁₀	ART	Advanced Rendering Tools (ART IV) (Fuji Xerox Co.,Ltd.)				
	4910	TIPSI	Transport Independent Printer System Interface (ref.IEEE Std.1284.1)				
	50 ₁₀	Prescribe	Technical reference manual: "PRESCRIBE II Programming Manual"				
	51 ₁₀	LinePrinter	A simple-text character stream which supports the control codes LF,VT,FF,and plus Centronics or Dataproducts Vertical Format Unit(VFU) language				
	52 ₁₀	IDP	Imaging Device Protocol (Apple Computer.)				
	53 ₁₀	XJCL	Xerox Job Control Language (JCL) (Fuji Xerox Co.,Ltd.)				
	54 ₁₀	PDF	Adobe Portable Document Format (Adobe Systems,Inc.)				
	55 ₁₀	RPDL()	Ricoh Page Description Language for printers (RICHO,Co.LTD)				
	56 ₁₀	IntermecIPL	Intermec Printer Language for label printers (Intermec Corporation)				
	57 ₁₀	UBIFingerprint	An intelligent basic-like programming language for label printers. (United Barcode Industries)				
	58 ₁₀	UBIDirectProtocol	An intelligent control language for label printers (United Barcode Industries)				
	59 ₁₀	Fujitsu Printer Language	(FUJITSU LIMITED)				
80 ₁₆ ~ 8F ₁₆	59 ₁₆ ~ FF ₁₆	Vendor Dependent format					
FE ₁₆	Special me	aning	aning				
	0016	Unit Plug defin	ed				
	01 ₁₆	Don't care					

FIG.12

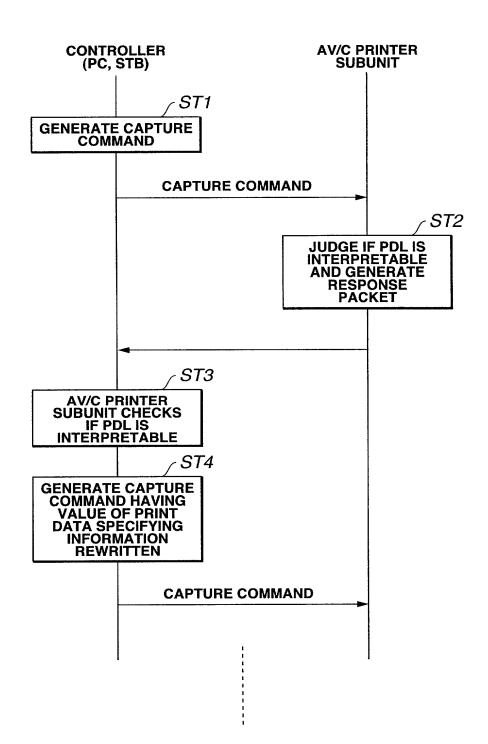


FIG.13

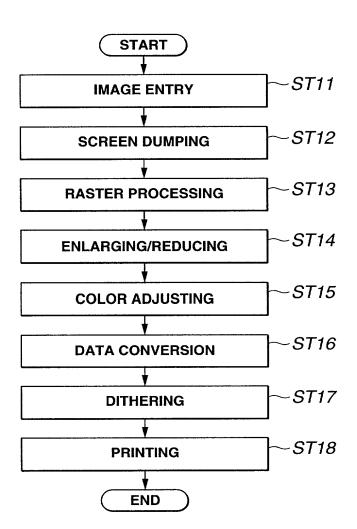


FIG.14

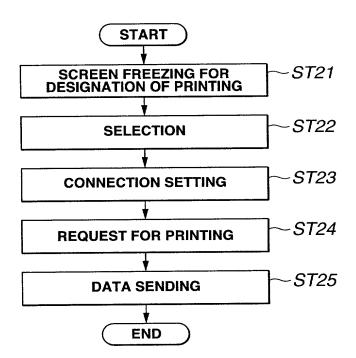


FIG.15

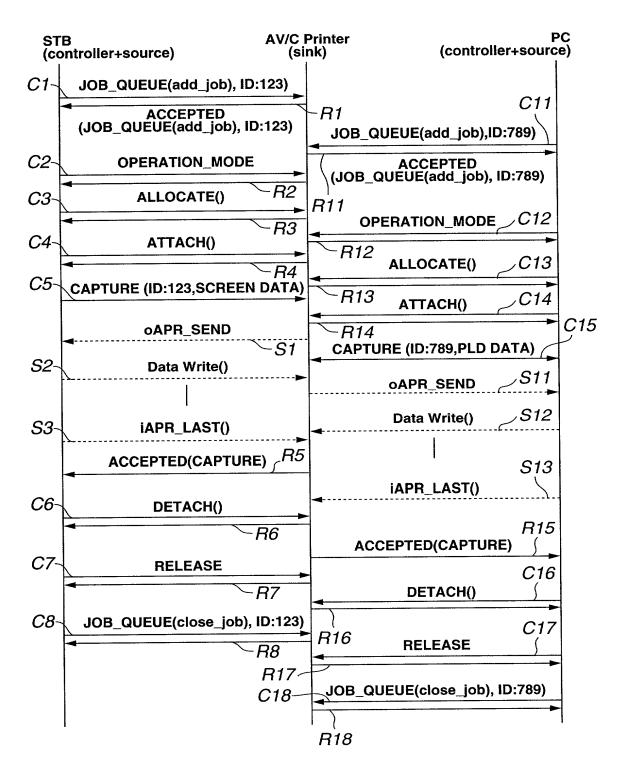


FIG.16

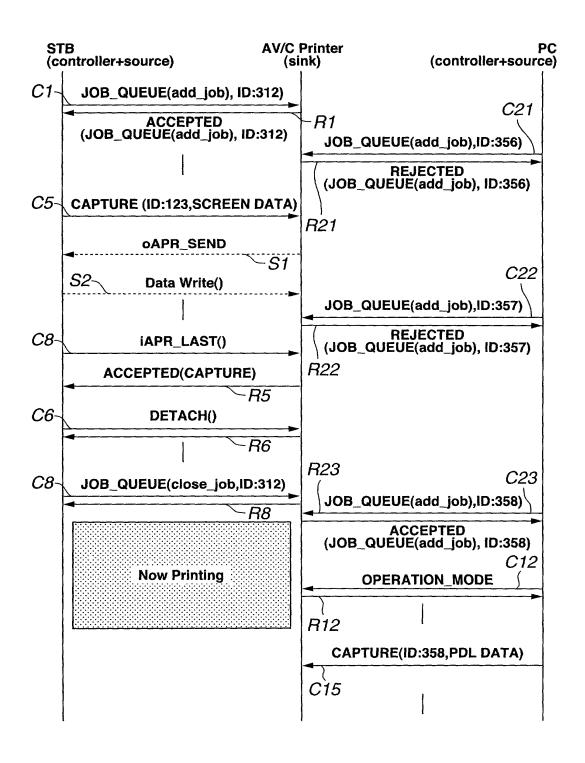


FIG.17

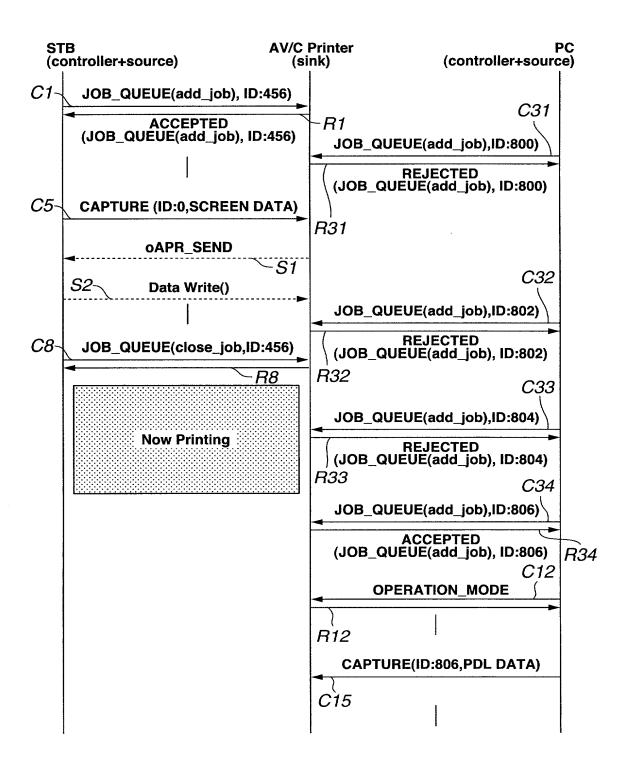


FIG.18

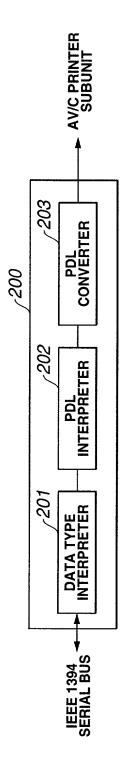


FIG.19